

16076 U.S. PTO
08/20/03

Patent

22154 U.S. PTO
10/644229
08/20/03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: QIU

Serial No.: Not yet assigned

Filing Date: Filed herewith

For: METHODS AND APPARATUS FOR
CHARACTERIZING SUBSCRIBER
LOOP BASED ON ANALYSIS OF DSL
HANDSHAKING SIGNALS AND FOR
OPTIMIZATION OF DSL OPERATION

Examiner: Not yet assigned

Group Art Unit: Not yet assigned

Docket No.: P16581

MS PATENT APPLICATION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

UTILITY PATENT APPLICATION TRANSMITTAL

(Large Entity)

Sir:

Transmitted herewith for filing under 35 USC 111(a) and 37 CFR 1.53(b) is a new utility patent application for an invention entitled: **METHODS AND APPARATUS FOR CHARACTERIZING SUBSCRIBER LOOP BASED ON ANALYSIS OF DSL HANDSHAKING SIGNALS AND FOR OPTIMIZATION OF DSL OPERATION**

and invented by: **QIU**

Enclosed are:

1. ☒ Filing Fee as calculated and transmitted as described below
2. ☒ Specification having 23 pages and including the following:
 - a. ☒ Descriptive Title of the Invention

- b. ☐ Cross references to Related Applications (*if applicable*)
- c. ☐ Statement Regarding Federally-sponsored Research/Development
- d. ☐ Reference to Microfiche Appendix (*if applicable*)
- e. ☒ Background of the Invention
- f. ☐ Brief Summary of the Invention
- g. ☒ Brief Description of the Drawings (*if drawings filed*)
- h. ☒ Detailed Description
- i. ☒ Claim(s) as Classified Below
- j. ☒ Abstract of the Disclosure
- 3. ☒ Drawing(s) (*when necessary as prescribed by 35 USC 113*)
 - a. ☒ Formal Number of Sheets 10
 - b. ☐ Informal Number of Sheets
- 4. ☒ Oath or Declaration
 - a. ☒ Newly executed (*original or copy*) ☐ Unexecuted
 - b. ☐ Copy from a prior application (37 CFR 1.63(d))
 - c. ☒ With Power of Attorney ☐ Without Power of Attorney
 - d. ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the Prior Application, see 37. CFR 1.63(d)(2) and 1.33(b).
- 5. ☐ Incorporation By Reference (*usable if Box 4b is checked*)
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
- 6. ☒ Assignment Papers (*cover sheet & documents(s)*)
- 7. ☐ 37 CFR 3.73(B) Statement (*when there is an assignee*)
- 8. ☐ English Translation Document (*if applicable*)
- 9. ☐ Information Disclosure Statement/PTO-1449 ☐ Copies of IDS Citations
- 10. ☐ Preliminary Amendment
- 11. ☒ Acknowledgement Postcard
- 12. ☒ Mailed Via
 - ☐ First Class ☒ Express Mail (*Specify Label No.*) **EV334067852US**
- 13. ☐ Certified Copy of Priority Document(s) (*if foreign priority is claimed*)
- 14. ☐ Request and Certification under 35 USC 122(b)(2)(B)(i) (*attach PTO/SB/35*)
- 15. ☒ Additional Enclosures: Credit Card Payment Form

FEE CALCULATION

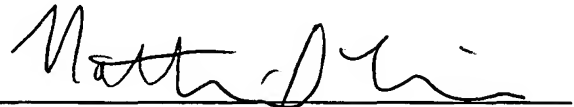
For	No. Filed	No. Allowed	No. Extra	Rate	Fee
Total Claims	47	- 20	27	\$ 18.00	\$ 486.00
Indep. Claims	10	- 3	7	\$ 84.00	\$ 588.00
Multiple Dependent Claims (If applicable, please add \$ 280.00)					\$ 0.00
BASIC FEE					\$ 750.00
OTHER FEE (specify purpose):					\$ 0.00
TOTAL FILING FEE					\$1,824.00

Credit Card Authorization for **\$1,824.00** and **\$40.00** are enclosed.

The Commissioner is hereby authorized to charge and credit Deposit Account No. 50-1852 as described below. A duplicate copy of this sheet is enclosed.

- ☒ Credit any overpayment.
- ☒ Charge any additional fees required under 37 CFR 1.16 and 1.17.

Respectfully submitted,



Nathaniel Levin
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August 20, 2003

Date

RECEIVED DATE 08-21-03

TOTAL COUNT 20 non-fee ☐

BATCH No. 0

☐ DESIGN

☐ PROV

☒ UTILITY

SERIAL No. RANGE

FROM 10 644 216 TO 10 644 235

PRE-DOC PREP 03/1/03

DATE 08-21-03

RAM 03/1/03

DATE 08-21-03

PRE-INDEX _____

DATE _____

INITIALIZATION _____

DATE _____

DATA ENTRY _____

DATE _____

QUALITY ASSURANCE _____

DATE _____

SCAN _____

DATE _____

IMAGE Q. A. _____

DATE _____

BOXING _____

DATE _____